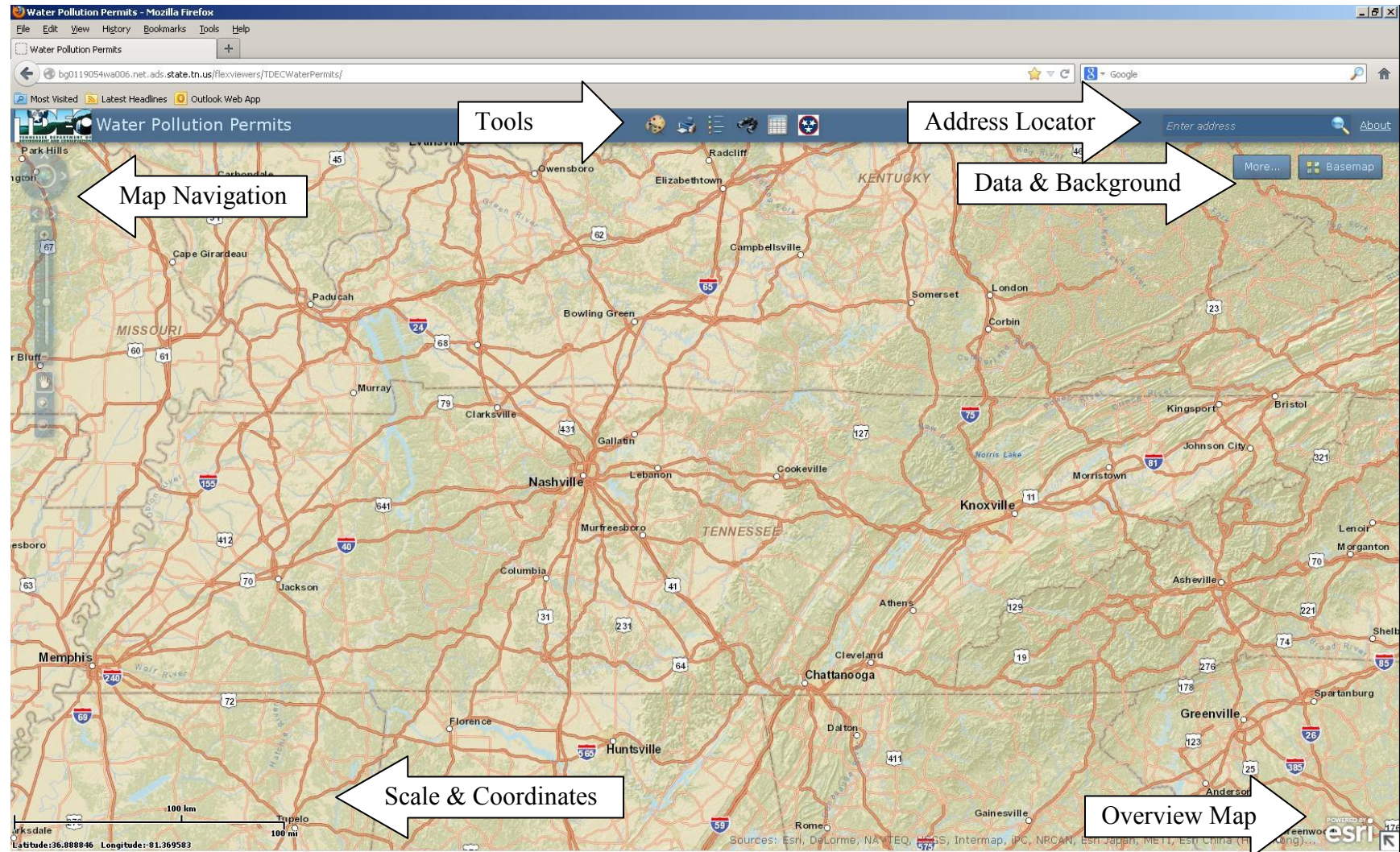# Help Document for TDEC Water Permits Web Application
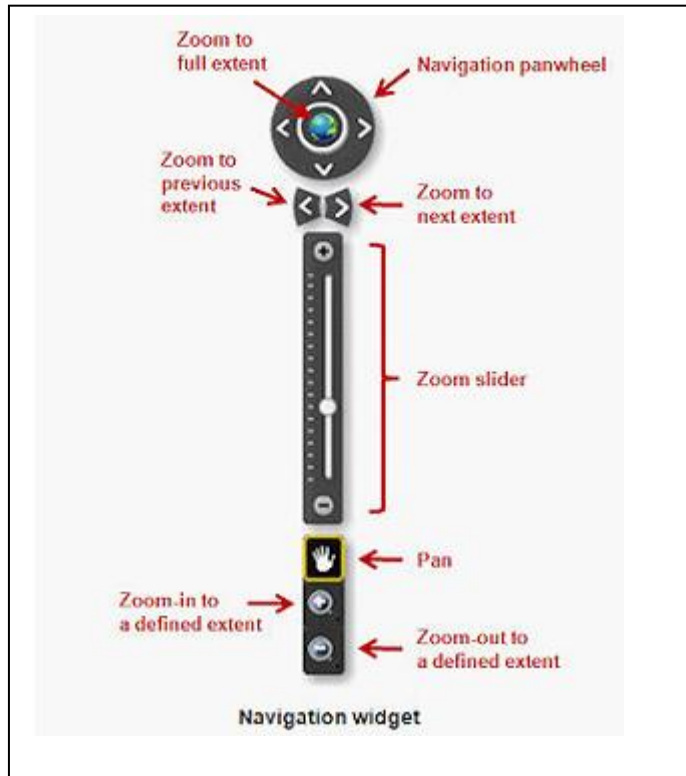
Note: This GIS based web application is created using Adobe Flash technology. The newest Adobe Flash Player will be needed for your web browser.

This application is designed to complement the Water Pollution Permits Data viewer web site (http://www.tn.gov/environment/wpc/dataviewer/). If you have trouble with this web application, please contact Tim Buchanan (532-0259 or Tim.Buchanan@tn.gov) or Richard Cochran (532-0997 or Richard.Cochran@tn.gov).

Opening Screen: This is the default opening screen. Tools are located along the top of the screen, including an Address Locator window. Map data and alternate base map/background data are located along the top right. A map navigation toolbar is located along the left edge. A scale bar and coordinate values are located in the lower left corner. An overview map to show where you are located is available in the lower right corner.

Map Navigation Bar—The map navigation bar is located on the left side of the map. It initially looks dull and inactive until you mouse over it.

Navigation widget

Zoom to Full Extent – Click the globe inside the panwheel. This will return the map to the original default extent.

Navigation panwheel – Clicking on the various sides will pan the map in that direction. The map can be panned in 8 directions. (N,S,E,W,NE,SE,NW,SW)

Zoom to Previous/Next Extent – Similar to the back and forward buttons on a web browser.

Zoom Slider – Slide up to zoom in and down to zoom out to predefined levels.

Pan – Click on map and hold button down to drag map across the screen. Release button to stop. Repeat as necessary to reach desired extent.

Zoom In/Out to Desired Extent – Click on map and drag cursor. Red box will appear around the area you would like to zoom to.

Navigation can also be done with your mouse. The mouse wheel can be used to zoom in or out. Roll the mouse wheel forward to zoom in and backward to zoom out. Use a double mouse click on the map to zoom into that spot. Hold the 'Shift' key while dragging a box to zoom in without switching the navigation tool. Also the **Address Locator** window can be used to zoom to a known location by address. Address format should be street, city, state, zip.

Data and Background—These buttons will allow the user to alternate between base maps and various data layers.
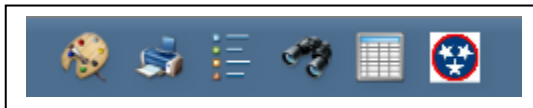

Basemaps—There are three different base maps users can choose from. The default is the streets base map.

Topographic will show the traditional USGS topographic maps. These are cached at various scales as the user zooms in ultimately ending up as the 1:24,000 scale topo.
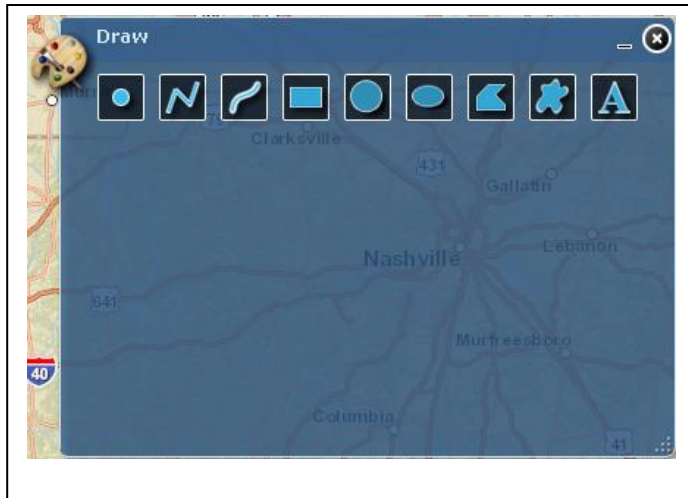
Imagery are color aerial photography.

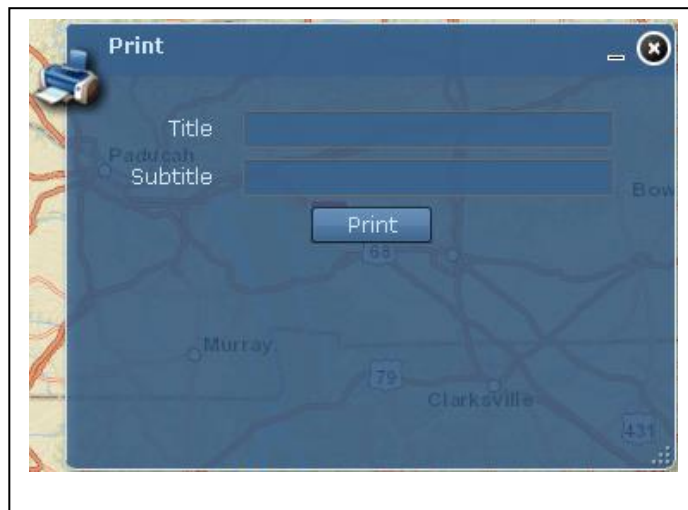**Streets** shows street names and locations with more detail as the user zooms in.

Tools—Tools are located along the top of the application on a tool bar

Draw Tool—This tool gives the user an array of point, line, and polygon markup tools as well as the ability to add text comments to the map.
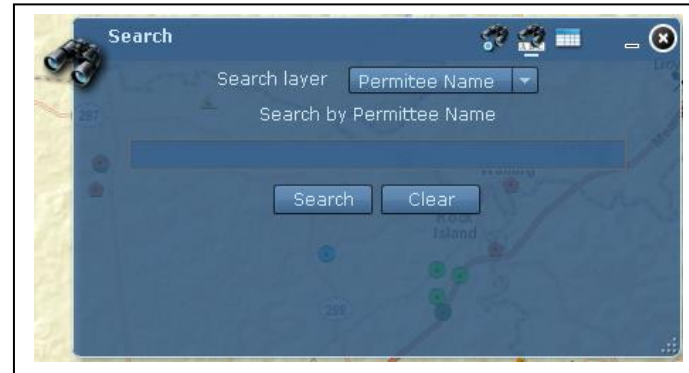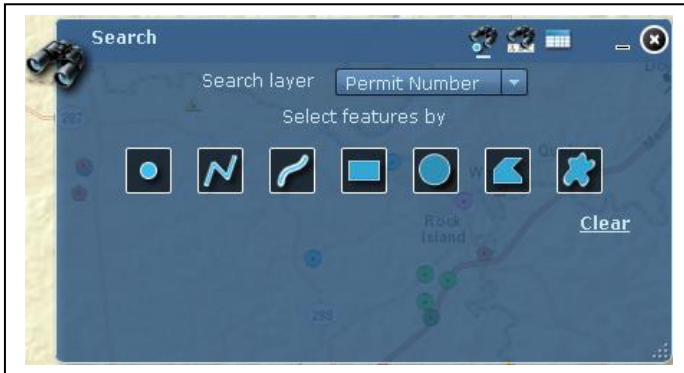
Print Tool – This basic print tool allows the user to print the current map view, including any overlays created by the Draw tool. Additionally, a map title and subtitle may be added.

Dynamic Legend Tool—This tool will dynamically update the legend of the map as you add data layers or more layers become active as you zoom.
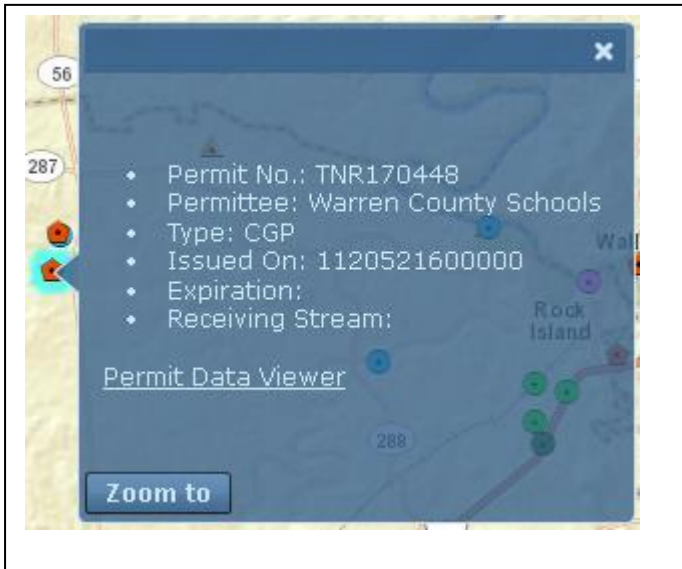
Search Tool—This tool allows the user to search for a Water Pollution Permit by Permit Name or Permit Number. The user can search using a graphical search or by using a search term in the search box.

The last two buttons on the tool bar are actually just active hyperlinks that will jump a user to the **Water Permits Data View** or the **TDEC Home page**.

More Information about Permits--A user can find out more information about any permit on the map by simply clicking on the map to activate an informational popup.

This popup window will show the basic information about the permit site. For even more information, the user can hit the **Permit Data Viewer** hyperlink to jump to the site's record in the online data viewer database.